What is claimed is:

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1	1.	A method of controlling communications in a wireless network		
2	comprising:			
3		receiving, in a wireless network controller, an indicator in a message sent		
4	by a mobile station to establish a data transfer session in the wireless network; and			
5		selecting one of plural types of protocol stacks to use for communications		
6	over an air link between the wireless network controller and mobile station based on the			
7	indicator.	-		
1	2.	The method of claim 1, wherein selecting one of plural types of protocol		
2	stacks compr	ises selecting from protocol stacks comprising a GERAN protocol stack.		
1	3.	The method of claim 2, wherein selecting one of plural types of protocol		
2	stacks comprises selecting from plural stacks comprising the GERAN protocol stack and			
3	an EGPRS protocol stack.			
1	4.	The method of claim 1, wherein selecting one of plural types of protocol		
2		ises selecting from protocol stacks comprising an EGPRS protocol stack.		
1	5.	The method of claim 1, wherein receiving the indicator comprises		
1		emporary Logical Link Identity structure having one of plural values.		
2	receiving a 1	emporary Logical Link identity structure naving one of planar values.		

- 6. The method of claim 5, wherein selecting one of plural types of protocol stacks comprises selecting a first protocol stack if the Temporary Logical Link Identity structure has a first value.
- 7. The method of claim 6, wherein selecting one of plural types of protocol stacks further comprises selecting a second protocol stack if the Temporary Logical Link Identity structure has a second value.

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- The method of claim 1, wherein selecting one of plural types of protocol 1 8. 2 stacks comprises selecting a first protocol stack if the indicator has a first value and selecting a second protocol stack if the indicator has a second value. 3 The method of claim 1, wherein receiving the indicator comprises 1 9. 2 receiving a parameter used for contention resolution. The method of claim 9, further comprising performing contention 10. 1 2 resolution using the parameter. 1 11. The method of claim 9, wherein receiving the parameter comprises receiving a Temporary Logical Link Identity. 2 The method of claim 9, wherein receiving the parameter comprises 12. 1 receiving a GERAN Contention Resolution Identity. 2 The method of claim 1, wherein receiving the indicator comprises 13. 1 receiving one of plural training sequences. 2 14. A system comprising: 1 an interface to an air link to communicate with mobile stations; and 2 a controller adapted to perform contention resolution with a first type 3 mobile station using a first type of indicator, the controller adapted to communicate 4 signaling according to a first wireless protocol with the first type of mobile station, and 5 the controller adapted to perform contention resolution with a second type 6 of mobile station using a second type of indicator, the controller adapted to communicate
 - The system of claim 14, wherein the first wireless protocol comprises a 15. GERAN wireless protocol.

signaling according to a second wireless protocol with the second type of mobile station.

	1	16.	The system of claim 15, wherein the second wireless protocol comprises			
	2	an EGPRS wireless protocol.				
	1	17.	The system of claim 14, wherein the first wireless protocol comprises an			
	2	EGPRS wireless protocol.				
	1	18.	The system of claim 14, wherein the first type of indicator comprises a			
	2	_	ogical Link Identity (TLLI) structure having a first value, and the second			
	3	type of indicator comprises a TLLI structure having a second value.				
	1	19.	The system of claim 18, wherein the first value indicates one of a local			
	2	TLLI, a forei	gn TLLI, and a random TLLI, and the second value indicates one of a local			
the state	3	GRCI and a r	random GRCI.			
is ton the result with the state that						
	1	20.	An article comprising at least one storage medium containing instructions			
Horn Year	2	that when ex	ecuted cause a wireless access system to:			
a in	3		receive an indicator in a message sent by a mobile station to establish a			
- H	4	data transfer session; and				
1)	5		select one of plural protocol stacks to use for communications over an air			
II. Total Youl Sham Sank Sank	6	link between	the wireless access system and the mobile station.			
n. H						
	1	21.	The article of claim 20, wherein the instructions when executed cause the			
	2		ess system to select one of plural protocol stacks by selecting a first protocol			
	3	stack in response to the indicator having a first value and selecting a second protocol				
	4	stack in resp	onse to the indicator having a second value.			
	1	22.	The article of claim 20, wherein the instructions when executed cause the			
	2	wireless acc	ess system to select one of a GERAN protocol stack and an EGPRS protocol			
	3	stack.				

	,		
1	23. The article of claim 20, wherein the instru	ctions when executed cause the	
2	wireless access system to receive the indicator by receivi	ng a Temporary Logical Link	
3	Identity (TLLI) structure.		
1	24. An article comprising at least one storage	medium containing instructions	
2	that when executed cause a wireless access system to:		
3	perform contention resolution with a first	type mobile station using a first	
4	type of indicator;		
5	communicate signaling according to a firs	t wireless protocol with the first	
6	type of mobile station;		
7	perform contention resolution with a secon	nd type of mobile station using a	
8	second type of indicator; and		
9	communicate signaling according to a sec	ond wireless protocol with the	
10	second type of mobile station.		
	25 The antiple of claim 24 wherein the instru	ations when executed cause the	
1	25. The article of claim 24, wherein the instru		
2	wireless access system to select one of plural types of protocol stacks based on which of		
3	the first and second types of indicators is received.		

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